

Appl. No. 10/061,727
Amdt. dated July 23, 2004
Resp. to Office Action dated February 24, 2004

CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Original) An isolated polynucleotide comprising SEQ ID NO:1 wherein the nucleic acid at 1792 is A or C.
2. (Previously presented) An isolated polynucleotide comprising a nucleic acid that encodes a polypeptide comprising SEQ ID NO:2, wherein the amino acid 598 is Thr or Pro.
3. (Withdrawn) An isolated polynucleotide comprising SEQ ID NO:3.
4. (Withdrawn) An isolated polynucleotide comprising a nucleic acid that encodes a polypeptide comprising SEQ ID NO:4.
5. (Currently amended) An isolated polynucleotide comprising a molecule selected from the group consisting of:
 - a) A polynucleotide that encodes a polypeptide comprising amino acid residues 384-687 of SEQ ID NO:2, wherein the amino acid at 598 is Thr or Pro;
 - b) A polynucleotide that encodes a polypeptide comprising amino acid residues 379-687 of SEQ ID NO:2, wherein the amino acid at 598 is Thr or Pro;
 - c) A polynucleotide that encodes a polypeptide comprising amino acid residues 389-685 of SEQ ID NO:4;
 - d) A polynucleotide that encodes a polypeptide comprising amino acid residues 379-685 of SEQ ID NO:4;
 - e) A polynucleotide that encodes a polypeptide comprising amino acid residues 449-687 of SEQ ID NO:2, wherein the amino acid at 598 is Pro or Thr;
 - f) A polynucleotide that encodes a polypeptide comprising amino acid residues 449-685 of SEQ ID NO:4
 - g) A polynucleotide that encodes a fragment of a polypeptide described in (a-b,ef), wherein the fragment interacts with an IL-1R signal transduction factor;
 - h) An isolated nucleic acid molecule that hybridizes to either strand of a denatured, double-stranded DNA comprising the polynucleotide of any

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one of a,b,e,g[[e-g]] under conditions of moderate high stringency in 50% formamide and 6XSSC, at 42°C with washing conditions of 68°C, 0.52XSSC, 0.1% SDS; wherein the isolated nucleic acid encodes a polypeptide that interacts with an IL-1R signal transduction factor;

- i) An isolated nucleic acid molecule that encodes a polypeptide that is at least 85% identical to the polypeptides described in a)-g), wherein the polypeptide interacts with an IL-1R signal transduction factor;
- j) A polynucleotide that is degenerate to any of the polynucleotides of a)-i).

- 6. (Original) An expression vector comprising a polynucleotide of claim 5.
- 7. (Original) An expression vector comprising a polynucleotide that encodes a polypeptide comprising SEQ ID NO:2, wherein the amino acid residue at 598 is Pro or Thr.
- 8. (Withdrawn) An expression vector comprising a polynucleotide that encodes a polypeptide comprising SEQ ID NO:4.
- 9. (Previously presented) A host cell comprising the vector of claim 6.
- 10. (Currently amended) A process of preparing a polypeptide encoded by a polynucleotide of claim 5, the process comprising culturing a host cell of claim 9 under conditions promoting expression of the polypeptide.
- 11. (Currently amended) A process of preparing a polypeptide encoded by a polynucleotide of claim 2, the process comprising culturing a host cell transformed with a vector of claim 7 under conditions promoting expression of the polypeptide.
- 12. (Withdrawn) A polypeptide selected from the group consisting of:
 - a) A polypeptide comprising SEQ ID NO:2, wherein the amino acid at 598 is Thr or Pro;
 - b) A polypeptide comprising SEQ ID NO:4;
 - c) A polypeptide comprising amino acids 449-685 of SEQ ID NO:4;
 - d) A polypeptide comprising amino acids 449-687 of SEQ ID NO:2, wherein the amino acid at 598 is Thr or Pro;

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- e) A polypeptide comprising amino acids 384-687 of SEQ ID NO:2, wherein the amino acid at 598 is Thr or Pro;
- f) A polypeptide comprising amino acids 379-687 of SEQ ID NO:2, wherein the amino acid at 598 is Thr or Pro;
- g) A polypeptide comprising amino acids 379-685 of SEQ ID NO:4;
- h) A polypeptide comprising amino acids 389-685 of SEQ ID NO:4;
- i) A polypeptide comprising a fragment of a polypeptide of a)-h) wherein the fragment interacts with a signal transduction factor;
- j) A polypeptide that is at least 85% identical to a polypeptide of a)-g), wherein the polypeptide interacts with a signal transduction factor.

13. (Withdrawn) An antibody that is specific to a polypeptide of claim 10.

14. (Withdrawn) A method for screening for an agonist or antagonist of IL-1 comprising:

Contacting a polypeptide of claim 8 with an IL-1 family member and an IL-1 receptor family member in the presence of a candidate compound, and comparing the interaction of the polypeptide in the presence of the candidate compound with the interaction in the absence of the compound, whereby a compound that modulates the interaction of the polypeptide is identified as an agonist or antagonist of the polypeptide of claim 8.